

## Patent Abstracts of Japan

PUBLICATION NUMBER : 04281359  
PUBLICATION DATE : 06-10-92

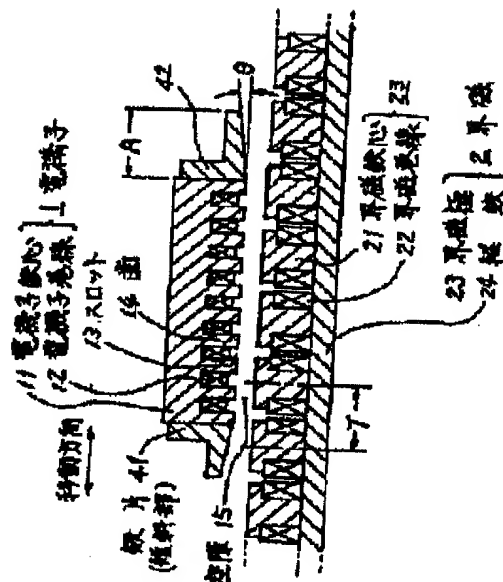
APPLICATION DATE : 05-03-91  
APPLICATION NUMBER : 03037647

APPLICANT : FUJI ELECTRIC CO LTD;

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INT.CL. : H02K 41/03

TITLE : LINEAR SYNCHRONOUS MACHINE



**ABSTRACT :** PURPOSE: To suppress fluctuation of acceleration of a vehicle mounted primary system linear synchronous machine constituted such that the length of armature core is shorter than that of the field

**CONSTITUTION:** Inclining parts are provided at the opposite ends of an armature core so that the difference of electromagnetic forces produced at the opposite ends of the armature core, i.e., the fluctuation of thrust, is suppressed. When the inclining parts are composed of iron pieces, constitution and dimension of the armature core are not required to be modified and an inexpensive steel member can be employed as the iron piece. Furthermore, when the iron piece is constituted to have L-type cross-section, it can be fixed easily to the armature core. Alternatively, protruding dimension of the tooth of the armature core is modified to provide an inclining part thus setting the dimension in the moving direction of armature conventionally. When protrusions are provided at the opposite ends of the armature core to provide an inclining parts, the iron pieces are not required. When these arrangements are combined, dimensions at the inclining part are ensured and the dimension in the moving direction of the armature can be minimized.

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